



Full wwPDB X-ray Structure Validation Report ⓘ

Aug 20, 2020 – 01:57 PM BST

PDB ID : 4A9N
Title : N-TERMINAL BROMODOMAIN OF HUMAN BRD2 WITH N-cyclopropyl
-5-(3,5- dimethyl-1,2-oxazol-4-yl)-2-methylbenzene-1-sulfonamide
Authors : Chung, C.; Bamborough, P.
Deposited on : 2011-11-26
Resolution : 1.85 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.13.1
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.13.1

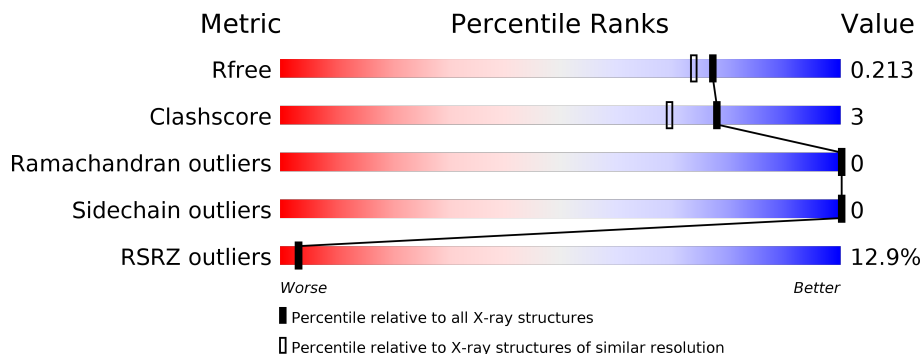
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.85 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	2469 (1.86-1.86)
Clashscore	141614	2625 (1.86-1.86)
Ramachandran outliers	138981	2592 (1.86-1.86)
Sidechain outliers	138945	2592 (1.86-1.86)
RSRZ outliers	127900	2436 (1.86-1.86)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	154	 6% 69% 6% 27%
1	B	154	 15% 68% 6% 25%
1	C	154	 6% 65% 6% 31%

2 Entry composition i

There are 6 unique types of molecules in this entry. The entry contains 3196 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called BROMODOMAIN CONTAINING 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	112	950	616	157	167	10	0	2	0
1	B	115	987	636	168	173	10	0	4	0
1	C	106	888	578	149	152	9	0	0	0

There are 60 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	47	GLY	-	expression tag	UNP P25440
A	48	SER	-	expression tag	UNP P25440
A	49	SER	-	expression tag	UNP P25440
A	50	HIS	-	expression tag	UNP P25440
A	51	HIS	-	expression tag	UNP P25440
A	52	HIS	-	expression tag	UNP P25440
A	53	HIS	-	expression tag	UNP P25440
A	54	HIS	-	expression tag	UNP P25440
A	55	HIS	-	expression tag	UNP P25440
A	56	SER	-	expression tag	UNP P25440
A	57	SER	-	expression tag	UNP P25440
A	58	GLY	-	expression tag	UNP P25440
A	59	LEU	-	expression tag	UNP P25440
A	60	VAL	-	expression tag	UNP P25440
A	61	PRO	-	expression tag	UNP P25440
A	62	ARG	-	expression tag	UNP P25440
A	63	GLY	-	expression tag	UNP P25440
A	64	SER	-	expression tag	UNP P25440
A	65	HIS	-	expression tag	UNP P25440
A	66	MET	-	expression tag	UNP P25440
B	47	GLY	-	expression tag	UNP P25440
B	48	SER	-	expression tag	UNP P25440
B	49	SER	-	expression tag	UNP P25440

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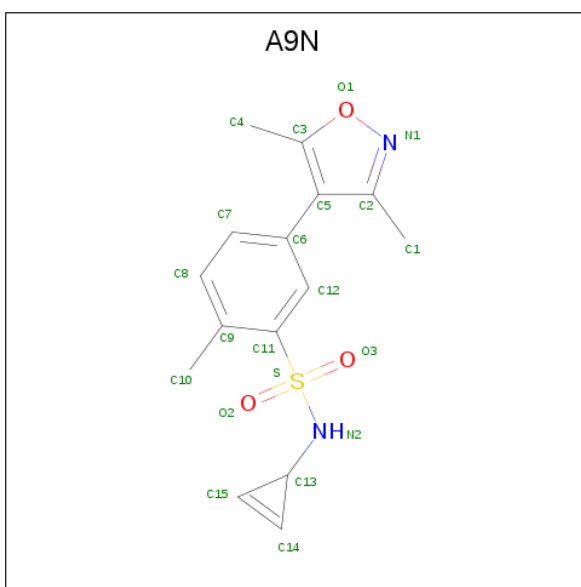
Chain	Residue	Modelled	Actual	Comment	Reference
B	50	HIS	-	expression tag	UNP P25440
B	51	HIS	-	expression tag	UNP P25440
B	52	HIS	-	expression tag	UNP P25440
B	53	HIS	-	expression tag	UNP P25440
B	54	HIS	-	expression tag	UNP P25440
B	55	HIS	-	expression tag	UNP P25440
B	56	SER	-	expression tag	UNP P25440
B	57	SER	-	expression tag	UNP P25440
B	58	GLY	-	expression tag	UNP P25440
B	59	LEU	-	expression tag	UNP P25440
B	60	VAL	-	expression tag	UNP P25440
B	61	PRO	-	expression tag	UNP P25440
B	62	ARG	-	expression tag	UNP P25440
B	63	GLY	-	expression tag	UNP P25440
B	64	SER	-	expression tag	UNP P25440
B	65	HIS	-	expression tag	UNP P25440
B	66	MET	-	expression tag	UNP P25440
C	47	GLY	-	expression tag	UNP P25440
C	48	SER	-	expression tag	UNP P25440
C	49	SER	-	expression tag	UNP P25440
C	50	HIS	-	expression tag	UNP P25440
C	51	HIS	-	expression tag	UNP P25440
C	52	HIS	-	expression tag	UNP P25440
C	53	HIS	-	expression tag	UNP P25440
C	54	HIS	-	expression tag	UNP P25440
C	55	HIS	-	expression tag	UNP P25440
C	56	SER	-	expression tag	UNP P25440
C	57	SER	-	expression tag	UNP P25440
C	58	GLY	-	expression tag	UNP P25440
C	59	LEU	-	expression tag	UNP P25440
C	60	VAL	-	expression tag	UNP P25440
C	61	PRO	-	expression tag	UNP P25440
C	62	ARG	-	expression tag	UNP P25440
C	63	GLY	-	expression tag	UNP P25440
C	64	SER	-	expression tag	UNP P25440
C	65	HIS	-	expression tag	UNP P25440
C	66	MET	-	expression tag	UNP P25440

- Molecule 2 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: C₂H₆O₂).



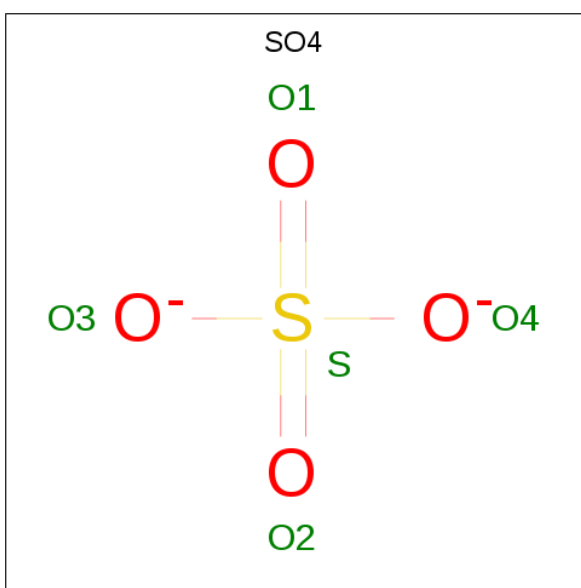
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total C O 4 2 2	0	0
2	A	1	Total C O 4 2 2	0	0
2	A	1	Total C O 4 2 2	0	0
2	B	1	Total C O 4 2 2	0	0
2	B	1	Total C O 4 2 2	0	0
2	C	1	Total C O 4 2 2	0	0

- Molecule 3 is N-CYCLOPROP-2-EN-1-YL-5-(3,5-DIMETHYL-1,2-OXAZOL-4-YL)-2-METHYL-BENZENESULFONAMIDE (three-letter code: A9N) (formula: C₁₅H₁₆N₂O₃S).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	N	O	S		
3	A	1	21	15	2	3	1	0	0
3	B	1	21	15	2	3	1	0	0

- Molecule 4 is SULFATE ION (three-letter code: SO4) (formula: O₄S).



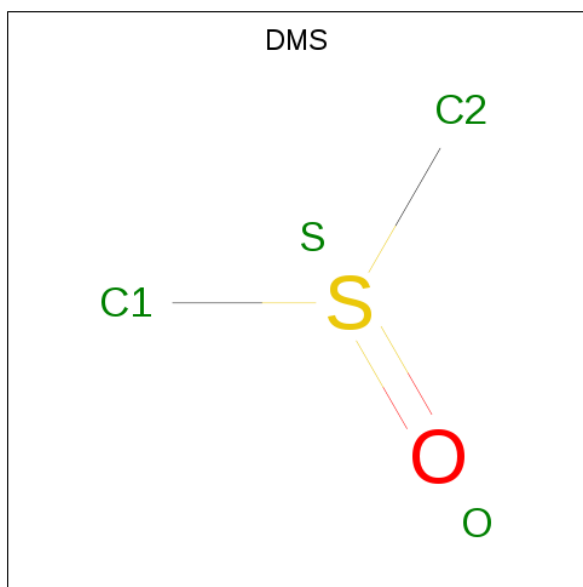
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	O	S		
4	A	1	5	4	1	0	0
4	A	1	5	4	1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	B	1	Total O S 5 4 1	0	0
4	C	1	Total O S 5 4 1	0	0

- Molecule 5 is DIMETHYL SULFOXIDE (three-letter code: DMS) (formula: C₂H₆OS).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	C	1	Total C O S 4 2 1 1	0	0

- Molecule 6 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	123	Total O 123 123	0	0
6	B	90	Total O 90 90	0	0
6	C	68	Total O 68 68	0	0

4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	113.97Å 55.73Å 68.13Å 90.00° 94.96° 90.00°	Depositor
Resolution (Å)	67.88 – 1.85 39.56 – 1.85	Depositor EDS
% Data completeness (in resolution range)	97.5 (67.88-1.85) 97.5 (39.56-1.85)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.10 (at 1.85Å)	Xtrriage
Refinement program	REFMAC 5.5.0109	Depositor
R, R_{free}	0.174 , 0.195 0.189 , 0.213	Depositor DCC
R_{free} test set	1405 reflections (3.97%)	wwPDB-VP
Wilson B-factor (Å ²)	31.1	Xtrriage
Anisotropy	0.442	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 48.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	3196	wwPDB-VP
Average B, all atoms (Å ²)	39.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.53% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: A9N, DMS, SO4, EDO

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.35	0/975	0.57	2/1319 (0.2%)
1	B	0.32	0/1013	0.47	0/1369
1	C	0.33	0/913	0.44	0/1235
All	All	0.33	0/2901	0.50	2/3923 (0.1%)

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	123[A]	MET	CG-SD-CE	8.34	113.55	100.20
1	A	123[B]	MET	CG-SD-CE	8.34	113.55	100.20

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	950	0	942	3	0
1	B	987	0	973	10	0
1	C	888	0	888	4	0
2	A	12	0	18	0	0
2	B	8	0	12	2	0
2	C	4	0	6	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	A	21	0	16	0	0
3	B	21	0	16	0	0
4	A	10	0	0	0	0
4	B	5	0	0	0	0
4	C	5	0	0	0	0
5	C	4	0	6	1	0
6	A	123	0	0	0	0
6	B	90	0	0	0	0
6	C	68	0	0	1	0
All	All	3196	0	2877	17	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 3.

All (17) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:80[B]:GLN:HA	1:B:80[B]:GLN:HE21	1.40	0.85
1:B:139:SER:O	1:B:143[A]:GLN:HG2	2.02	0.59
1:B:143[B]:GLN:HE21	2:B:1188:EDO:H11	1.69	0.58
1:A:139:SER:O	1:A:143:GLN:HG2	2.04	0.58
1:B:143[B]:GLN:HE21	2:B:1188:EDO:C1	2.19	0.55
1:B:80[B]:GLN:CA	1:B:80[B]:GLN:HE21	2.14	0.54
1:B:80[B]:GLN:HA	1:B:80[B]:GLN:NE2	2.17	0.54
1:C:96:ALA:HB1	1:C:123:MET:HE3	1.91	0.53
1:C:82:LEU:HD23	1:C:86:VAL:HG21	1.91	0.51
1:C:78:GLN:HB3	1:C:138:ALA:HB2	1.96	0.48
1:C:96:ALA:HB1	1:C:123:MET:CE	2.44	0.46
1:B:97:TRP:CG	1:B:98:PRO:HD3	2.54	0.42
1:B:105:ALA:HB1	1:B:110:LEU:O	2.20	0.42
1:B:150:THR:HG22	1:B:154:ILE:HD12	2.01	0.42
5:C:1183:DMS:H23	6:C:2012:HOH:O	2.19	0.41
1:A:146:ASN:HB2	1:B:174:LEU:HD11	2.02	0.41
1:A:97:TRP:CG	1:A:98:PRO:HD3	2.56	0.41

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	112/154 (73%)	112 (100%)	0	0	100	100
1	B	117/154 (76%)	117 (100%)	0	0	100	100
1	C	104/154 (68%)	104 (100%)	0	0	100	100
All	All	333/462 (72%)	333 (100%)	0	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	104/139 (75%)	104 (100%)	0	100	100
1	B	107/139 (77%)	107 (100%)	0	100	100
1	C	97/139 (70%)	97 (100%)	0	100	100
All	All	308/417 (74%)	308 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	167	GLN
1	B	133	ASN
1	B	146	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

13 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	EDO	A	1189	-	3,3,3	0.48	0	2,2,2	0.30	0
3	A9N	A	1190	-	16,23,23	2.51	1 (6%)	23,35,35	0.73	0
2	EDO	A	1188	-	3,3,3	0.44	0	2,2,2	0.19	0
2	EDO	B	1187	-	3,3,3	0.45	0	2,2,2	0.26	0
3	A9N	B	1189	-	16,23,23	2.47	1 (6%)	23,35,35	0.68	0
4	SO4	A	1191	-	4,4,4	0.14	0	6,6,6	0.05	0
4	SO4	C	1185	-	4,4,4	0.18	0	6,6,6	0.12	0
4	SO4	A	1192	-	4,4,4	0.14	0	6,6,6	0.07	0
2	EDO	C	1184	-	3,3,3	0.46	0	2,2,2	0.32	0
2	EDO	B	1188	-	3,3,3	0.49	0	2,2,2	0.33	0
2	EDO	A	1187	-	3,3,3	0.48	0	2,2,2	0.14	0
5	DMS	C	1183	-	3,3,3	2.66	1 (33%)	3,3,3	0.53	0
4	SO4	B	1190	-	4,4,4	0.14	0	6,6,6	0.09	0

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns.

'-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	EDO	A	1189	-	-	0/1/1/1	-
3	A9N	A	1190	-	-	0/13/17/17	0/3/3/3
2	EDO	A	1188	-	-	0/1/1/1	-
2	EDO	B	1187	-	-	0/1/1/1	-
3	A9N	B	1189	-	-	0/13/17/17	0/3/3/3
2	EDO	C	1184	-	-	0/1/1/1	-
2	EDO	B	1188	-	-	1/1/1/1	-
2	EDO	A	1187	-	-	1/1/1/1	-

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	1190	A9N	C1-C2	-9.74	1.33	1.50
3	B	1189	A9N	C1-C2	-9.65	1.34	1.50
5	C	1183	DMS	O-S	4.46	1.80	1.50

There are no bond angle outliers.

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B	1188	EDO	O1-C1-C2-O2
2	A	1187	EDO	O1-C1-C2-O2

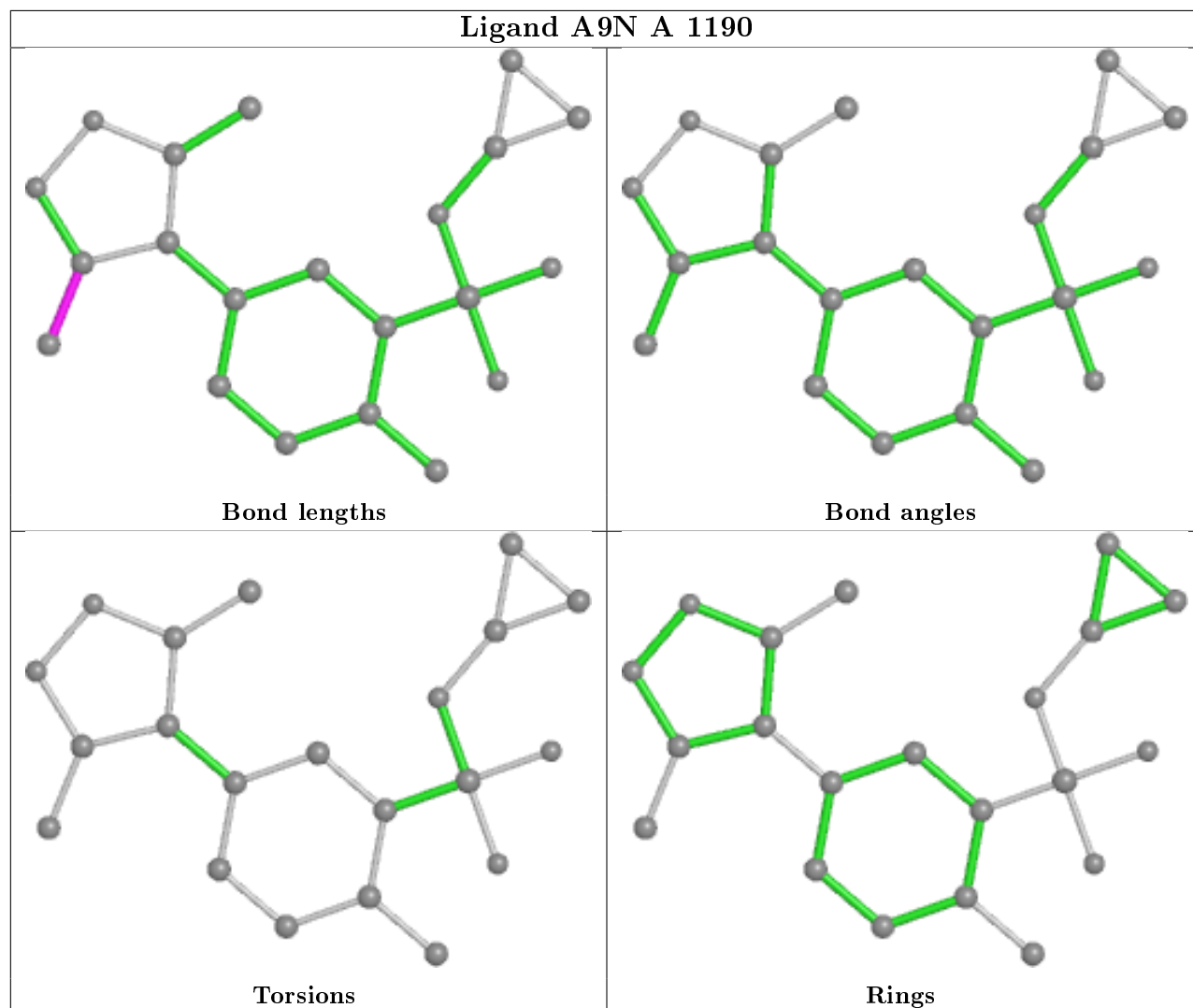
There are no ring outliers.

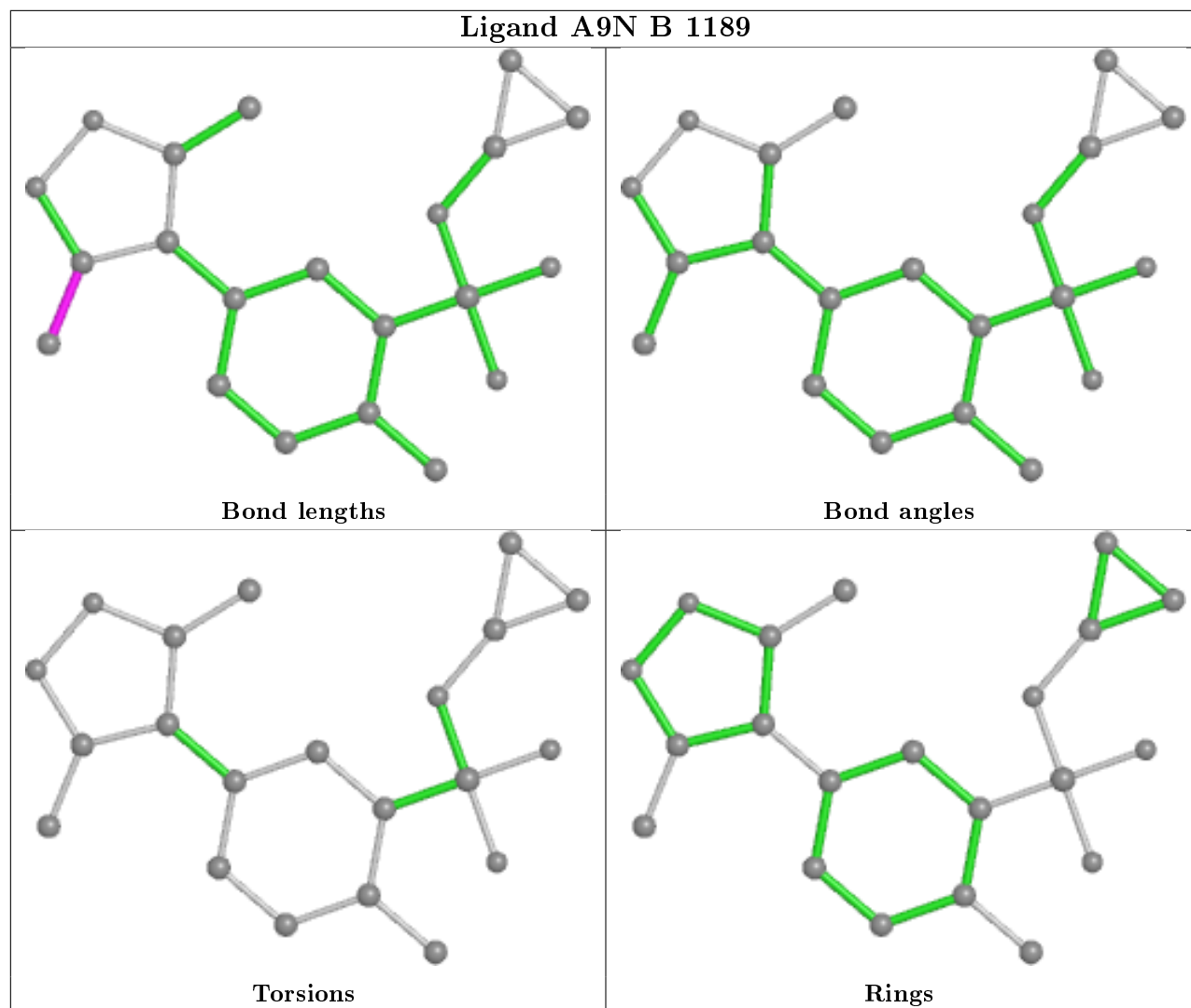
2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	1188	EDO	2	0
5	C	1183	DMS	1	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and

any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.





5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	112/154 (72%)	0.66	10 (8%) 9 9	22, 34, 59, 85	0
1	B	115/154 (74%)	0.81	23 (20%) 1 1	22, 36, 61, 74	0
1	C	106/154 (68%)	0.45	10 (9%) 8 8	25, 42, 68, 80	0
All	All	333/462 (72%)	0.64	43 (12%) 3 3	22, 37, 64, 85	0

All (43) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	75	VAL	9.5
1	A	136	TRP	6.3
1	B	106	VAL	6.2
1	B	109	GLY	5.2
1	B	136	TRP	4.9
1	B	111	PRO	4.8
1	C	110	LEU	4.7
1	C	85	VAL	4.5
1	A	75	VAL	4.0
1	B	74	ARG	3.8
1	B	73	GLY	3.6
1	A	186	GLU	3.6
1	A	184	GLU	3.5
1	C	108	LEU	3.5
1	B	186	GLU	3.2
1	B	110	LEU	3.1
1	A	182	GLN	3.1
1	A	185	GLN	3.0
1	B	72	PRO	3.0
1	A	183	GLU	2.9
1	B	108	LEU	2.9
1	C	88	LYS	2.9
1	B	105	ALA	2.9

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Mol	Chain	Res	Type	RSRZ
1	B	184	GLU	2.8
1	C	84	LYS	2.8
1	B	182	GLN	2.7
1	B	80[A]	GLN	2.5
1	C	109	GLY	2.5
1	C	111	PRO	2.5
1	B	133	ASN	2.4
1	B	185	GLN	2.4
1	B	76	THR	2.4
1	C	182	GLN	2.3
1	A	164	LEU	2.3
1	B	107	LYS	2.3
1	B	104	ASP	2.2
1	B	149	PHE	2.2
1	A	133	ASN	2.1
1	B	128	ARG	2.1
1	C	92	LYS	2.1
1	A	166	ALA	2.1
1	B	183	GLU	2.1
1	C	136	TRP	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

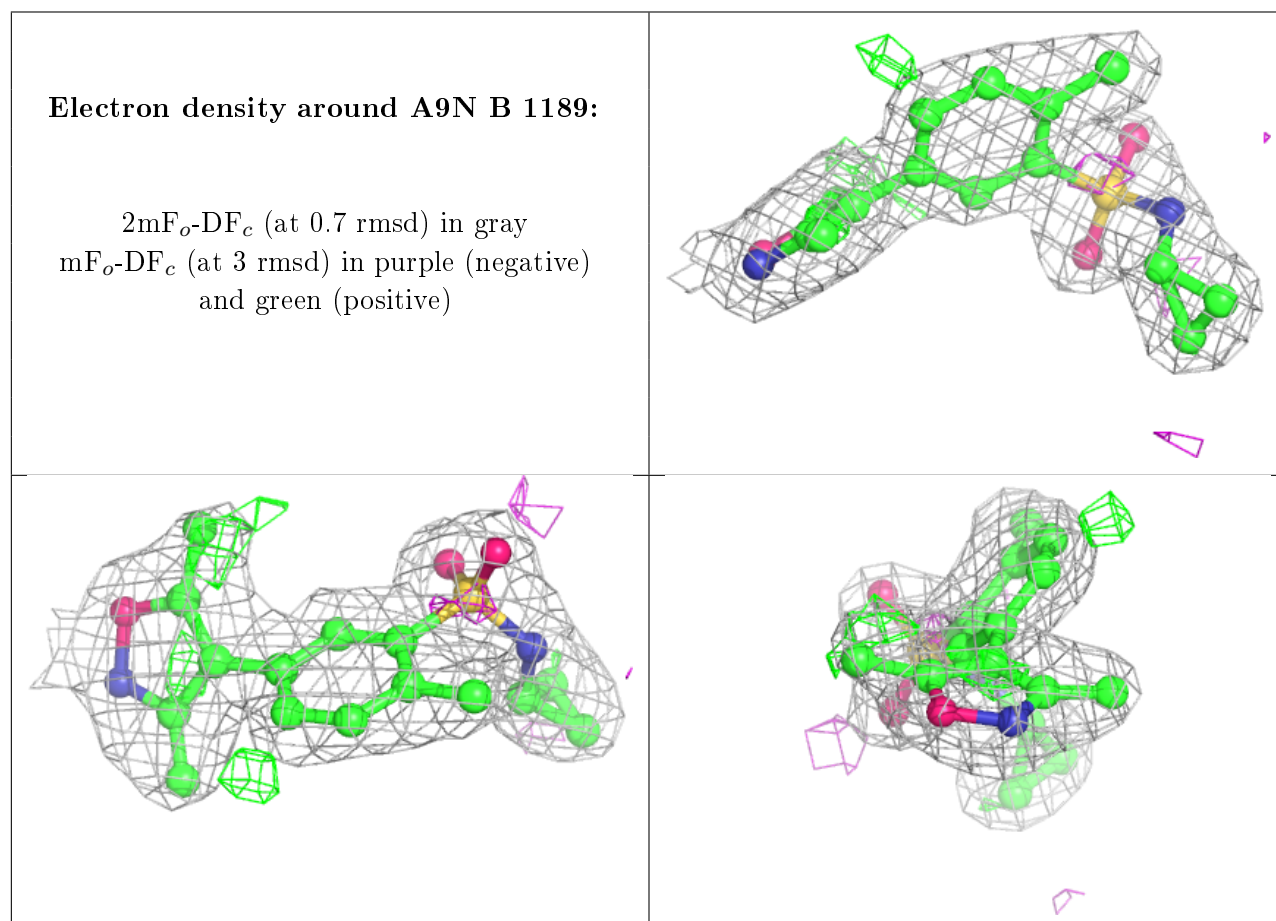
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
2	EDO	B	1188	4/4	0.68	0.37	49,50,52,55	0
2	EDO	A	1189	4/4	0.69	0.24	69,70,70,70	0
2	EDO	A	1187	4/4	0.73	0.21	55,55,55,55	0

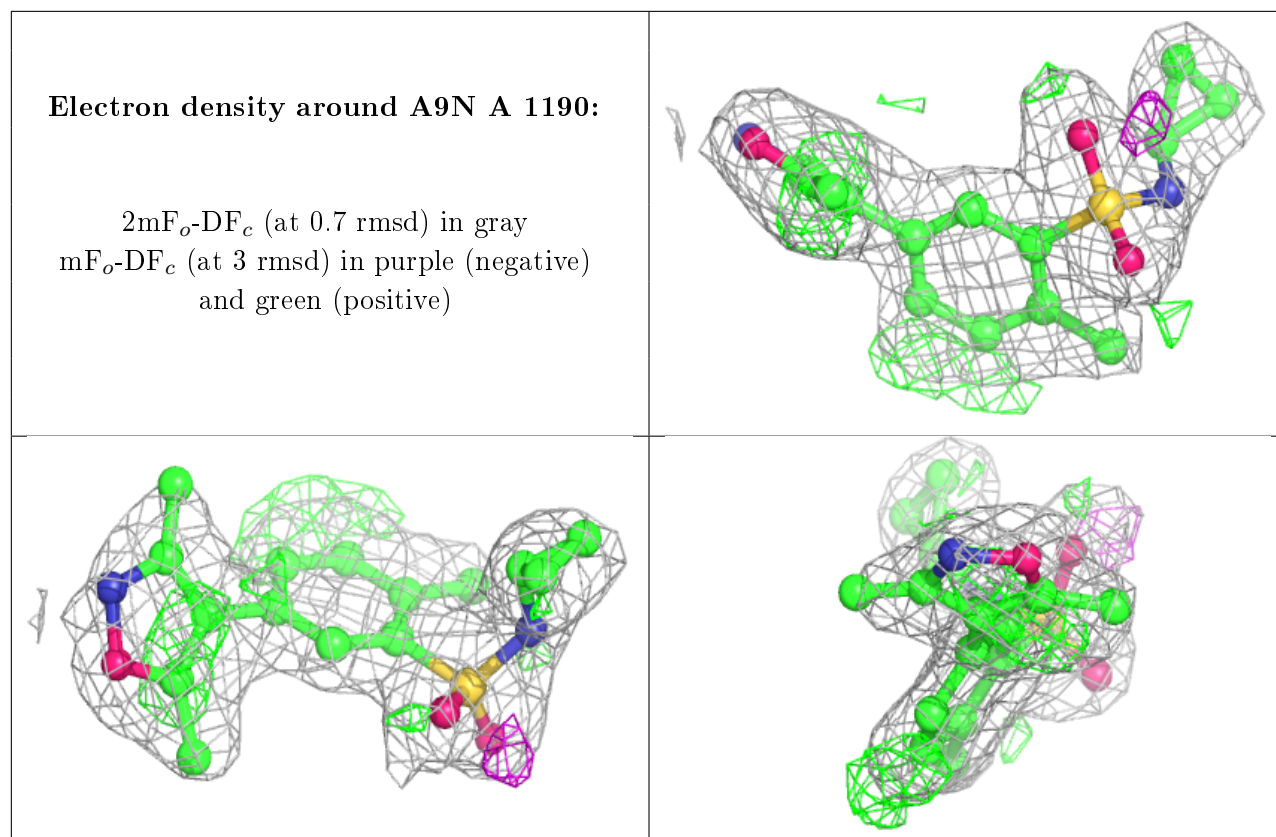
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
4	SO4	A	1192	5/5	0.84	0.21	122,122,122,122	0
3	A9N	B	1189	21/21	0.86	0.16	38,40,41,43	21
4	SO4	A	1191	5/5	0.89	0.19	88,88,88,88	0
2	EDO	C	1184	4/4	0.89	0.13	47,50,50,51	0
3	A9N	A	1190	21/21	0.90	0.20	37,38,41,41	21
4	SO4	B	1190	5/5	0.91	0.20	74,75,75,75	0
2	EDO	B	1187	4/4	0.94	0.16	44,44,45,45	0
2	EDO	A	1188	4/4	0.94	0.18	31,36,37,37	0
5	DMS	C	1183	4/4	0.96	0.11	64,64,65,65	0
4	SO4	C	1185	5/5	0.97	0.15	52,54,55,55	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.





6.5 Other polymers [i](#)

There are no such residues in this entry.